

Title (en)  
SHIELDED RECIPROCATING SURGICAL FILE

Title (de)  
ABGESCHIRMTE HIN- UND HERGEHENDE CHIRURGISCHE FEILE

Title (fr)  
LIME DE CHIRURGIEN BLINDEE A MOUVEMENT ALTERNATIF

Publication  
**EP 1549199 A4 20100825 (EN)**

Application  
**EP 03776205 A 20030929**

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Abstract (en)  
[origin: WO2004028351A2] The invention relates to shielded reciprocating surgical file system for precisely removing bone and/or tissue material. The system allows a user to maneuver the system and navigate into hard to access sites under a direct vision mechanism included in the system. A transmission mechanism converts rotary motion from a motor into reciprocating motion and provides it to the surgical file for precision bone and/or tissue removal. A pulsatile pump mechanism is operatively coupled with the transmission mechanism and provides irrigating fluid to the surgical site.

IPC 8 full level  
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IPC 8 main group level  
**A61B** (2006.01)

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Citation (search report)  
• [XY] US 5411513 A 19950502 - IRELAND DAN C [US], et al  
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• See references of WO 2004028351A2

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**WO 2004028351 A2 20040408; WO 2004028351 A3 20040729; WO 2004028351 A9 20040923;** AU 2003283978 A1 20040419;  
AU 2003283978 B2 20090813; AU 2003283978 B9 20091203; AU 2003283978 C1 20100121; AU 2009236031 A1 20091203;  
AU 2009236031 B2 20120628; CA 2500973 A1 20040408; CA 2500973 C 20120515; EP 1549199 A2 20050706; EP 1549199 A4 20100825;  
JP 2006500998 A 20060112; JP 4517170 B2 20100804; US 2004122459 A1 20040624; US 2006058732 A1 20060316;  
US 2006079919 A1 20060413; US 2008058820 A1 20080306; US 2012116404 A1 20120510; US 2013331842 A1 20131212;  
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JP 2004540289 A 20030929; US 201113330693 A 20111220; US 201313968319 A 20130815; US 26923105 A 20051108;  
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